

DENON



V12084

STEREO CD PLAYER

DCD-1015

OPERATING INSTRUCTIONS

BEDIENUNGSANLEITUNG

MODE D'EMPLOI

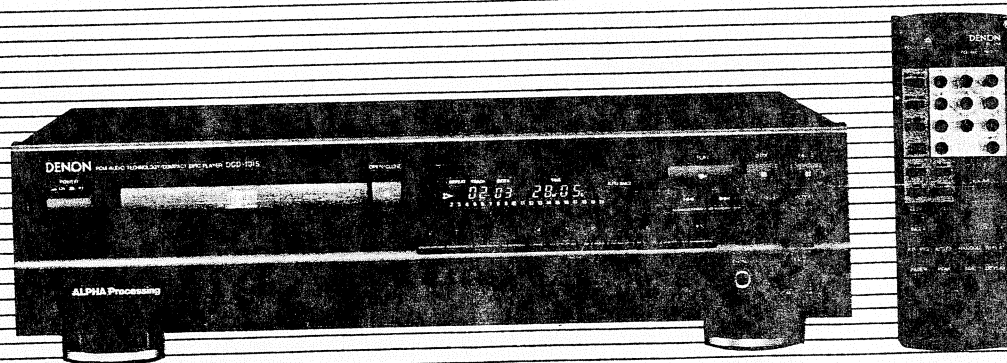
ISTRUZIONI PER L'USO

INSTRUCCIONES DE OPERACION

GEBRUIKSAANWIJZING

BRUKSANVISNING

INSTRUÇÕES DE OPERAÇÃO



FOR ENGLISH READERS
FÜR DEUTSCHE LESER
POUR LES LECTEURS FRANCAIS
PER IL LETTORE ITALIANO

PAGE 5 ~ PAGE 15
SEITE 16 ~ SEITE 27
PAGE 28 ~ PAGE 39
PAGINA 40 ~ PAGINA 45

PARA LECTORES DE ESPAÑOL
VOOR NEDERLANDSTALIGE LEZERS
FÖR SVENSKA LÄSARE
PARA LEITORES PORTUGUESES

PAGINA 46 ~ PAGINA 52
PAGINA 53 ~ PAGINA 59
SIDA 60 ~ SIDA 65
PÁGINA 66 ~ PÁGINA 72

IMPORTANT TO SAFETY

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

NOTE:

This CD player uses the semiconductor laser. To allow you to enjoy music at a stable operation, it is recommended to use this in a room of 5°C (41°F) - 35°C (95°F).

CAUTION:

1. Handle the power supply cord carefully

Do not damage or deform the power supply cord. If it is damaged or deformed, it may cause electric shock or malfunction when used. When removing from wall outlet, be sure to remove by holding the plug attachment and not by pulling the cord.

2. Do not open the top cover

In order to prevent electric shock, do not open the top cover. If problems occur, contact your DENON DEALER.

3. Do not place anything inside

Do not place metal objects or spill liquid inside the CD player. Electric shock or malfunction may result.

Please, record and retain the Model name and serial number of your set shown on the rating label.

Model No. DCD-1015

Serial No. _____

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
CLASS 1 LASERAPPARAT

"CLASS 1
LASER PRODUCT"



VARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGA UDSÆTTELSE FOR STRÅLING.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAÄ ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING- OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

NUR FÜR EUROPÄISCHE MODELLE

Konformitätserklärung

Die DENON Electronic GmbH
Halskestraße 32
40880 Ratingen

Erklärt als Hersteller/Importeur, daß das in dieser Bedienungsanleitung beschriebene Gerät den Technischen Vorschriften für Ton- und Fernseh-Rundfunkempfänger nach der Amtsblattverfügung 868/1989 (Amtsblatt des Bundesministers für Post und Telekommunikation vom 31. 8. 1989) entspricht.

Thank you for purchasing this DENON Compact Disc Player. Please read the operating instructions thoroughly in order to acquaint yourself with the CD player and achieve maximum satisfaction from it.

— TABLE OF CONTENTS —

FEATURES	5
NAMES AND FUNCTIONS OF PARTS	6, 7
CONNECTION	7
OPENING AND CLOSING THE DISC HOLDER AND LOADING A DISC	7
NORMAL CD PLAYBACK	8
ADVANCED CD PLAYBACK	8 ~ 12
PLAYBACK USING THE REMOTE CONTROL UNIT	13, 14
THE COMPACT DISC	14
TIMER-CONTROLLED PLAYBACK	15
INSTALLATION PRECAUTIONS	15
TROUBLESHOOTING	15
SPECIFICATIONS	15

Please check to make sure the following items are included with the main unit in the carton:

(1) Operating Instructions	1
(2) Connection Cord	1
(3) Remote Control Unit RC-251	1
(4) R6P AA Dry Cell Battery	2
(5) AC Cord	1

FEATURES

The DCD-1015 is a CD player which uses DENON's unique Λ S.L.C. (Super Linear Converter) for eliminating loss of sound quality in the PCM playback section to offer playback of the same sounds as those in the studio or hall where the CD was recorded. In addition, the use of carefully selected parts makes this a high performance CD player reproducing the original sound field with rich musical expression.

- (1) **Ultimate signal reproduction thanks to the newly developed alpha processor**
The high speed interpolation operations of the newly developed alpha processor reproduce the LSB (lowest significant bit) data lost from the disc upon recording to provide a smooth waveform. The audible effects of alpha processing are particularly great during playback at low levels at the instant the sound fades out.
- (2) **Real 20-bit Λ S.L.C. (Super Linear Converter)**
The use of DENON's unique system for preventing zero cross distortion, the main factor in loss of sound quality in the PCM playback section, plus real 20-bit D/A converters with superior resolution, offers reproduction of the original sound field with rich musical expression.
- (3) **High performance digital filter**
The independent real 20-bit D/A converters for the left and right channels and a high precision digital filter with 8 times oversampling bring out the best of the analog filter to produce crisp, clear sound.
- (4) **Remote control unit with volume control**
In addition to such functions as play, pause, stop and direct search using number buttons, the remote control unit also includes + and - volume buttons for remote control of the volume. The remote control functions greatly add to the operability of the set.
- (5) **Digital Output (OPTICAL/COAXIAL)**
The data on the compact disc is output in digital format, so the music can be reproduced on an external digital processor or D/A unit.
- (6) **Playback of 8-centimeter CD singles**
8-centimeter CD singles can be played on the DCD-1015 without an adapter.

NAMES AND FUNCTIONS OF PARTS

1 Power Switch (POWER)

- When the power is turned on, "(- 10)" appears on the TIME display, and if no disc is loaded, "(0000000)" appears on the digital display.
- If the power is turned on with a disc already loaded, the total number of tracks on the disc is displayed on the TRACK NO. display, the total time is displayed on the TIME display, the numbers on the music calendar light up to the number of tracks on the disc, and playback begins.
- When the power is turned off, the unit is set to the standby mode.

2 Disc Holder

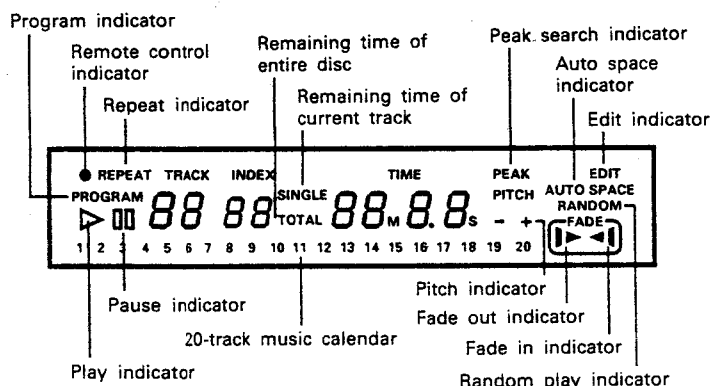
- Place the disc on the disc holder with the label facing up.
- Use the open/close button (OPEN/CLOSE) to open and close the disc holder.
- The disc holder may also be closed by pressing the play button (PLAY) or pause button (PAUSE).

3 Open/Close Button (OPEN/CLOSE)

- The disc holder is opened and closed by pressing this button.
- Press this button once to open the disc holder, and once again to close it.
- When the disc holder is closed with a disc loaded, the disc will rotate for a couple of seconds while the disc contents are read. The number of tracks and total playback time on the disc are then displayed on the digital display.

4 Display

- The digital display is divided into sections, such as displays for track number, index, playback time and calendar, as shown below.



5 Automatic Search Reverse Button ()

- Press this button to return the pickup to the beginning of the present track. Press again to return to other tracks.
- By pressing the button a number of times, the pickup will move back the corresponding number of tracks.

6 Play Button (PLAY)

- Press this button to start playback of a disc.
- When this button is pressed, is displayed, and the track number being played is displayed together with the elapsed playback time of the track.
- Tracks are shown on the calendar display. Once a track has been played, the corresponding track number goes out on the calendar display.

7 Automatic Search Forward Button ()

- Press this button to move the pickup forward to the beginning of the next track. Press again to move ahead to other tracks.
- By pressing the button a number of times, the pickup will advance the corresponding number of tracks.

8 Stop Button (STOP)

- Press this button to stop playback. The disc will stop rotating, and the number of tracks and total playing time of the disc are displayed on the TRACK NO. and TIME displays, respectively.
- In case programmed playback is engaged when this button is pressed, the number of tracks and total playing time of the program are displayed.

9 Pause Button (PAUSE)

- Press this button to stop playback temporarily.
- If this button is pressed during playback, playback is stopped temporarily, the indicator goes out and the indicator lights.
- Press this button or the play button (PLAY) again to continue playback.

10 Repeat Button (REPEAT)

- Press to play repeatedly. When pressed once, the REPEAT indicator lights and all tracks on the disc are played repeatedly. When pressed again, only one number is displayed on the calendar display, and only that track is repeated. When pressed a third time, the REPEAT indicator turns off and the repeat mode is canceled. Only the all-track repeat mode will function during programmed playback.

11 Number Buttons (0, 1, 2, 3, 4, 5, 6, 7, 8, and 9)

- Use these buttons for the direct search and program memory functions. For direct search, press for example button 3 if you want to hear track number 3. For track number 12, press +10 then 2. In addition, to program, set the program mode by pressing the PROGRAM button on the remote control unit.

12 +10 Button (+10)

- Press this button first when selecting track numbers over 10. Use it together with the number buttons 0-9. For example, to select track number 15, press +10 then 5. For track number 33, press +10 three times, then press 3.

13 Headphones Jack (PHONES)

- For private listening, you can connect your headphones to this jack. Do not raise the volume level too much when listening through headphones. (Headphones are sold separately.)

14 Display Button (DISPLAY)

- Press this button to change the brightness of the display.
- Press once to make the display 2/3 as bright as normal.
- Press again to make the display 1/3 as bright as normal.
- Press once again to turn the entire display off during playback and all but the track number off in any other mode.

15 Volume Control (PHONES LEVEL)

- Use this to adjust the output level (VOLUME) of the headphones.

16 Remote Control Sensor (REMOTE SENSOR)

- This sensor receives the infrared light transmitted from the wireless remote control unit.
- For remote control, point the supplied remote control unit RC-251 towards this sensor.
- When a signal is transmitted from the remote control unit, the remote control indicator in the display will light up briefly.

17 Output Terminal (FIXED-VARIABLE)

- Connect these jacks to the input jacks on your amplifier. (Refer to page 7 for details on the connections.)

18 Digital Output Jack (COAXIAL)

- This jack outputs digital data.
- We recommend using a 75 Ω /ohm pin cord (available in stores) for connections.

19 Digital Output Jack (OPTICAL)

- Digital data is output in optical form from this jack.
- Contact your nearest Denon Consumer Center or office for information on the optical fiber cable to be used for connection.

20 AC INLET

- Connect the included AC cord here.

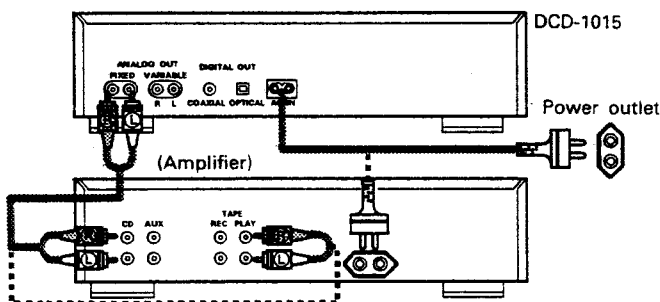
Continuous Button Operation

If the automatic search reverse button (5), the automatic search forward button (7), or the +10 button (12) are held in, the function of that button will be repeated.

CONNECTION

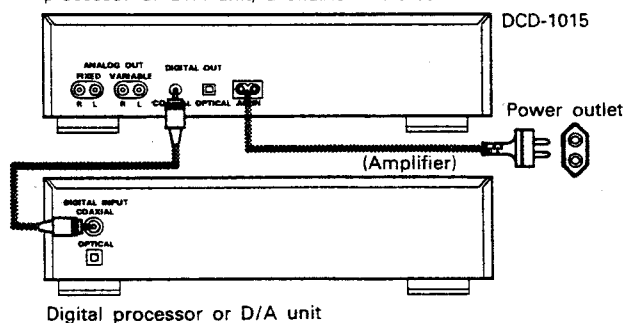
(1) Connecting the Output Terminal (FIXED-VARIABLE)

Use the included pin cords to connect the left (L) and right (R) output terminal (FIXED-VARIABLE) of the DCD-1015 to the CD, AUX, or TAPE left (L) and right (R) input jacks of the amplifier. There are two types of output jacks, one of the variable type and one of the fixed type. Be sure to use the variable outputs if you want to be able to control the output level from the DCD-1015.



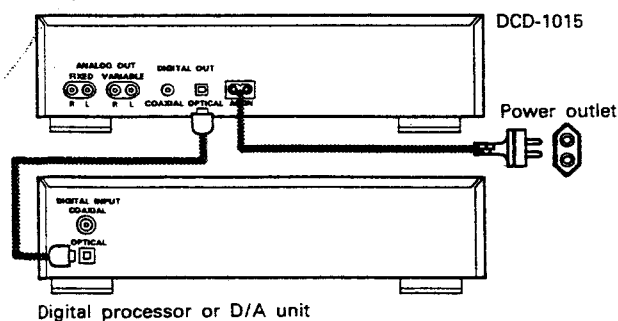
(2) Connecting the Digital Output Jack (COAXIAL)

Use a 75 Ω /ohm pin cord to connect the digital output jack (COAXIAL) of the DCD-1015 to the digital input jack (COAXIAL) on a digital processor or D/A unit, available in stores.



(3) Connections to the Digital Optical Output Jack (OPTICAL)

Use an optical fiber cable to connect the digital optical output jack of the DCD-1015 to the optical input jack on a digital processor or D/A unit.



Connection Precautions

- Before proceeding with connections or disconnections of cables and power cords, be sure to turn all system components off.
- Ensure that all cables are connected properly to the L (left) and R (right) jacks.
- Insert plugs fully into the terminals.
- Connect the output jacks to the amplifier CD, AUX or TAPE PLAY input jacks.

OPENING AND CLOSING THE DISC HOLDER AND LOADING A DISC

Opening and closing the disc holder (This operation only works while the power is on.)

- Press the power switch (POWER) to turn on the power.
- Press the open/close button (▲ OPEN/CLOSE).

How to load a disc

- Make sure the disc holder is completely open.
- Hold the disc by the edges and place it on the disc tray. (Do not touch the signal surface, i.e., the glossy side.)
- When using 12 cm. diameter discs, make sure the outer edge matches the tray guide circumference (Fig. 1), and when using CD singles (8 cm. diameter) match the outer edge with the inner tray guide circumference. (Fig. 2)
- Press the open/close button (▲ OPEN/CLOSE) to close the disc holder.
- When the disc holder is closed, the disc is read and after a few seconds the number of tracks and total playing time are displayed on the TRACK NO. and TIME displays, respectively.
- When the disc holder is open and a disc is loaded, you may also press the play (▶ PLAY) or pause (⏸ PAUSE) button to close the disc holder. (If the play button (▶ PLAY) is pressed, playback will start immediately upon the disc contents having been read.)

Fig. 1 Tray guide for 12 cm disc

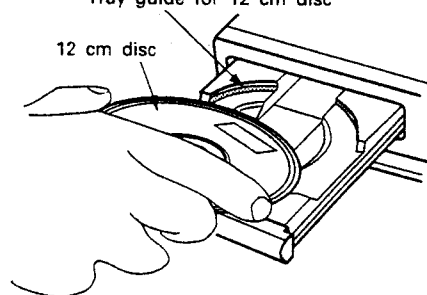
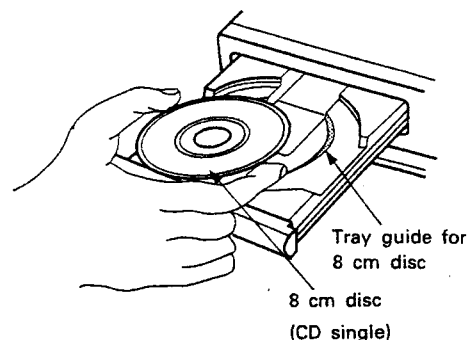


Fig. 2

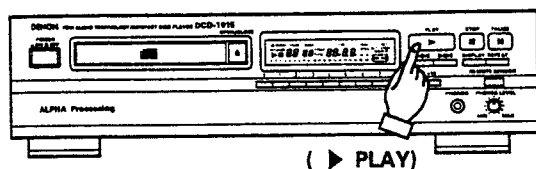


Caution:

- If your finger should get caught in the disc holder when it closes, press the open/close button (▲ OPEN/CLOSE).
- Do not place any foreign objects on the disc tray, and do not place more than one disc on the tray at a time. Otherwise malfunction may occur.
- Do not push in the disc tray manually when the power is off as this may cause malfunction and damage the CD player.

NORMAL CD PLAYBACK

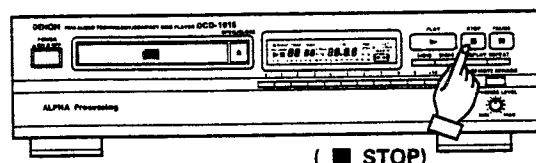
(1) Starting Playback



(▶ PLAY)

- 1 Turn the power switch on and load the disc.
- 2 Press the play button (▶ PLAY).
- The number of the track currently playing, the index number, and the elapsed time, etc., are displayed.

(2) Stopping Playback

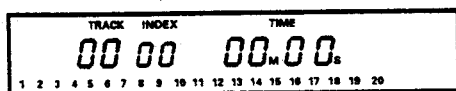


(■ STOP)

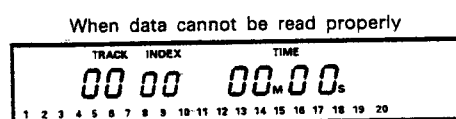
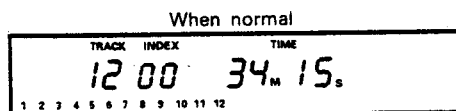
- 1 Press the stop button (■ STOP).
- The stop mode is set automatically once all tracks on the disc are played.

NOTE:

- If no disc is loaded or if the disc is loaded upside-down, the track number, index, and time displays will all read zero, and the entire calendar will light.

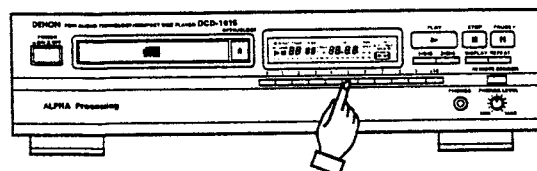


- If the information at the innermost side of the disc cannot be read properly due to dirt or scratches, the display will be as shown below, and the number of tracks and remaining time per track will not be displayed. Also, the search operation may take longer than usual.



ADVANCED CD PLAYBACK

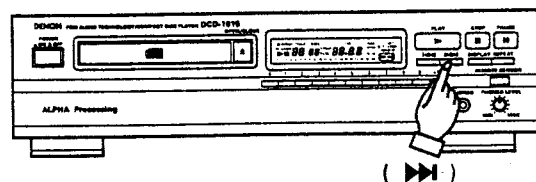
① Playing a Specific Track Direct Search



(Number buttons)

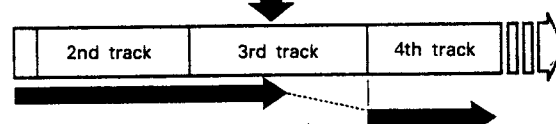
- ① Use the number buttons and the +10 button to input the number of the desired track.
For example, to play the fourth track press [4], and to play the 12th track press [+10] and [2]. The beginning of the track is found and playback starts.

② Moving to Following Tracks During Playback Automatic Search



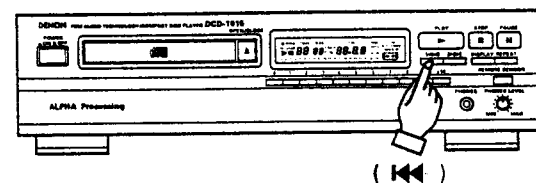
(▶▶)

Press the automatic search forward button (▶▶).



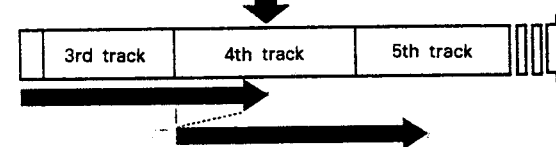
- ① Press the automatic search forward button (▶▶).
- If the automatic search forward button (▶▶) is pressed again during the search operation, the pickup moves on to the next track, etc.

③ Returning to the Beginning of the Current Track Automatic Search



(◀◀)

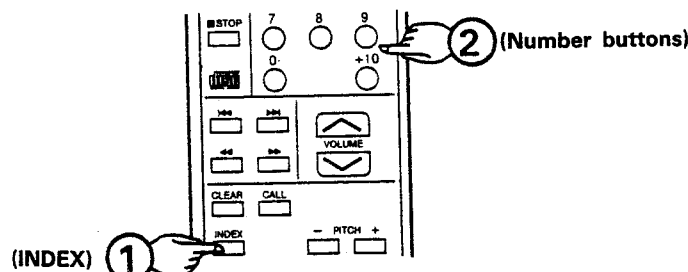
Press the automatic search reverse button (◀◀).



- ① Press the automatic search reverse button (◀◀).
- If the automatic search reverse button (◀◀) is pressed again during the search operation, the pickup moves on to the previous track, etc.

④ Finding Sections Within a Track Index Search (Remote control only)

- Use this function to start playback from certain sections within a track divided by index numbers.



- ① Press the INDEX button. "--" appears at the TRACK NO. display.

- ② Use the number buttons to specify the track number.
 "..." now appears at the INDEX display. Input the desired index number.
 Playback starts from there.
 For example, to start listening from index number 2 on track 3, press
 INDEX, 3 and 2.

Indexes

- Indexes are numbers which are assigned to sections within a track. Check the disc's explanatory notes for the index numbers.
- If you make an index search for an index number that is not on the disc, playback will start from the last index number on the track.

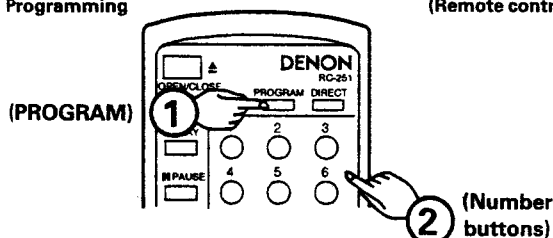
⑤ Playing Specific Tracks in a Specific Order

Programmed Play

- With this function, you can choose any of the tracks on the disc and program them to play in any order.
- Programming is possible with the disc holder open.
- Up to 20 tracks can be programmed.
- The programmed tracks are shown on the calendar.

(1) Programming

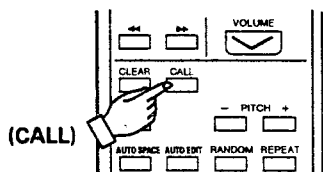
(Remote control only)



- The **PROGRAM** indicator lights when the program button (PROGRAM) is pressed. Next, use the number buttons and the +10 button to program the tracks.
 To program tracks 3, 12, and 7, for example, press **PROGRAM**, **3**, **+10**, **2**, and **7**.
 The track number lights on the calendar each time a track is programmed. The number of tracks programmed is displayed at the index display, and the total playing time for the programmed tracks is indicated at the time display. After the tracks are programmed, the total number of programmed tracks is displayed at the track number display, and the total playing time for the programmed tracks is indicated at the time display.

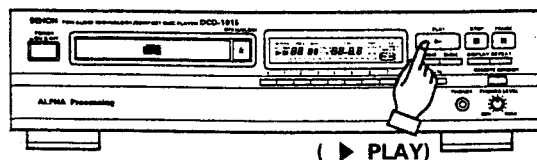
(2) Checking the Programmed Tracks

(Remote control only)



- Press the **CALL** button.
 The programmed tracks are displayed in order on the TRACK NO. display each time the CALL button is pressed.

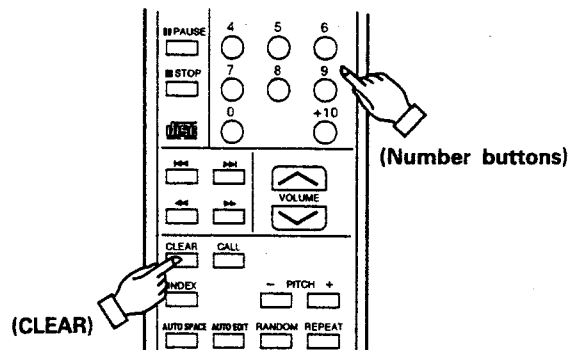
(3) Playing the Programmed Tracks



- Press the (▶) **PLAY** button to play the tracks in the programmed order.

(4) Correcting Programs

(Remote control only)

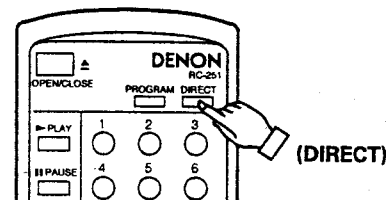


- To correct a programmed track, first press the **CLEAR** button, then program the correct track.
 The last track programmed is replaced with the correct track.
- To clear a track in the middle of the program, use the **CALL** button to call out that track, then press the **CLEAR** button to clear it from the program.

(5) Clearing the Entire Program

(Remote control only)

- Press the **DIRECT** button to clear the entire program. The entire program can also be cleared by pressing the **OPEN/CLOSE** button.
- If the **DIRECT** button is pressed during programmed playback, the program mode is cleared and normal playback continues from that track on.

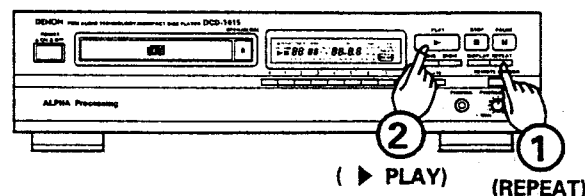


NOTES

- If the programming operation is performed in the play or pause mode, the current track is programmed as the first track in the program. Other programs can be added, but the number of programmed tracks and playing time will not be displayed.
- Direct search is not possible during programmed playback. Pressing the number buttons adds tracks to the end of the program.
- Programming is also possible when the disc holder is open. A track number greater than the number of tracks on the disc can be set in the program, but it will automatically be cleared from the program before playback starts.
- The remaining time per track can only be displayed for the first 20 tracks on the disc.
- The total program time and remaining program time as well will not be displayed if tracks numbers greater than 20 are programmed.

⑥ Playing All Tracks Repeatedly

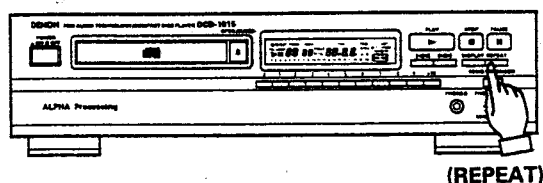
Repeat Playback



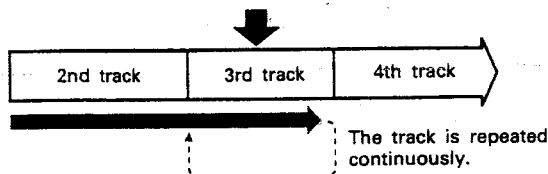
- Press the **REPEAT** button. The **REPEAT** indicator lights.
- The operation is the same whether button ① or ② is pressed first.
- The one-track repeat mode is set if the **REPEAT** button is pressed again during repeat playback.

- The all-track repeat mode is set even if the REPEAT button is pressed during playback.
- To cancel the repeat mode, press the REPEAT button twice.
- If the REPEAT button is pressed during programmed playback, the tracks are repeated in the programmed order.

7 Playing a Single Track Repeatedly One-track Repeat



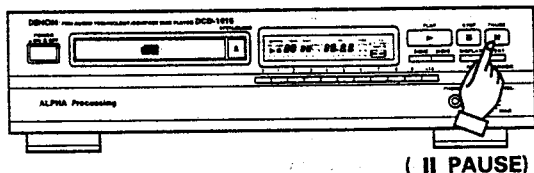
Press the REPEAT button twice



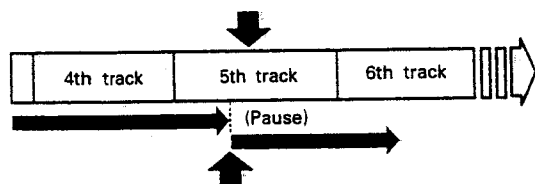
- Press this button when you hear a track you want to play repeatedly.
- Press the REPEAT button twice during playback. The **REPEAT** indicator lights, and if you are at track number 20 or less, that number appears on the calendar display and that track is played repeatedly.
- For track numbers 21 and above, the track number is not displayed on the calendar display but the one-track repeat mode will function.
- If the REPEAT button is pressed twice in the stop mode, track number 1 appears on the calendar display and one-track repeat is possible. Press the PLAY button to start playback.
- Press the REPEAT button once again to cancel the one-track repeat mode. The display and playback return to normal.

8 Stopping Momentarily During Playback Pause

- Playback can be stopped momentarily then resumed from the same point.



① Press the pause button (|| PAUSE).



- ② Press the play button (► PLAY) or the pause button (|| PAUSE).
- * To resume playback, press either the play button (► PLAY) or the pause button (|| PAUSE).

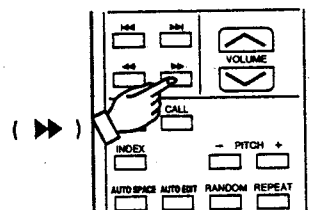
9 Finding a Track While Listening Manual Search

- You can skip through the disc while listening at high speed. This function comes in handy for finding a certain part in the middle of a long track and starting playback from there.

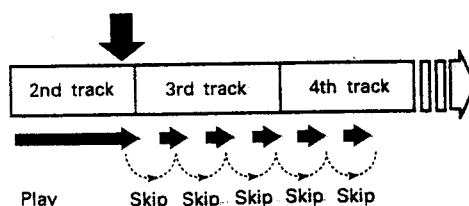
- Once you find the desired position using the manual search operation, release the manual search forward button (►►) or manual search reverse button (◄◄) to start normal playback.

(1) Manual Search Forward

(Remote control only)



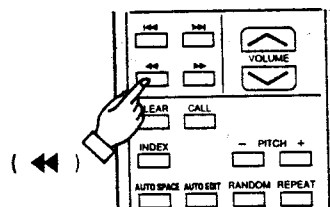
Hold in the manual search forward button (►►)



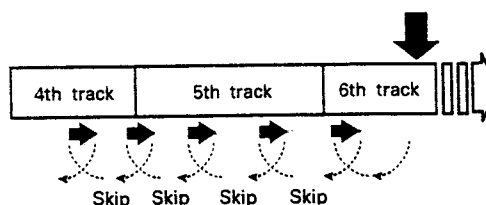
- ① During playback, press and hold in the manual search forward button (►►) to skip through the disc while listening at high speed.
- The number of the track being skipped through, the index, number, and the elapsed time for that track are indicated on the display window.
 - In the pause mode, the disc moves at about three times the speed as during the play mode, but no sound is heard.
 - When the end of the last track is reached while pressing the manual search forward button (►►), "JJ" appears on the display window and the manual search operation is stopped. To resume playback, press the manual search reverse button (◄◄), then do another operation once the "JJ" disappears from the display.

(2) Manual Search Reverse

(Remote control only)



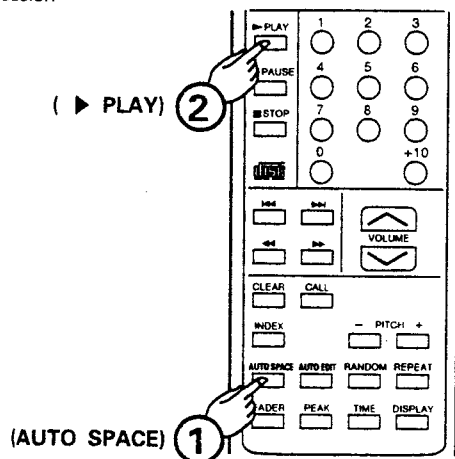
Hold in the manual search reverse button (◄◄)



- ① During playback, press and hold in the manual search reverse button (◄◄) to skip through the disc while listening at high speed.
- The display is the same as during the manual search forward operation.
 - In the pause mode, the disc moves at about three times the speed as during the play mode, but no sound is heard.
 - When the beginning of the first track is reached while pressing the manual search reverse button (◄◄), "LL" appears on the display window and the manual search operation is stopped. To resume playback, press the manual search forward button (►►), then do another operation once the "LL" disappears from the display.

10 Inserting Blanks Between Tracks **Auto Space** (Remote control only)

- This function inserts blank spaces between tracks, making editing easier.

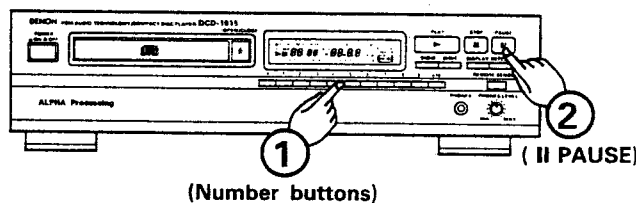


- The AUTO SPACE indicator lights when the auto space button is pressed.
- Press the play button (▶ PLAY) to start playback. When the end of a track is reached, a blank space of approximately 4 seconds is inserted before the beginning of the next track.
- Press the auto space button again to turn the auto space function off.

11 Pausing At the Beginning of a Track After Searching **Pause**

(1) Direct Search

- Pausing at the beginning of a track found with the direct search operation comes in handy for practicing karaoke.



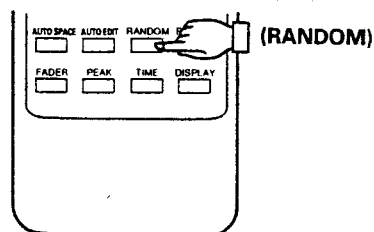
- Use the number buttons to set the desired track.
 - Press the pause button (⏸ PAUSE).
- To start playback, press either the play button (▶ PLAY) or the pause button (⏸ PAUSE).

(2) Program Search

- Press the pause button (⏸ PAUSE) after programming tracks. The beginning of the first track in the program is found and the disc is paused there.

12 Playing Tracks in Random Order **Random Playback** (Remote control only)

- All of the tracks recorded on the disc can be played once in random order.



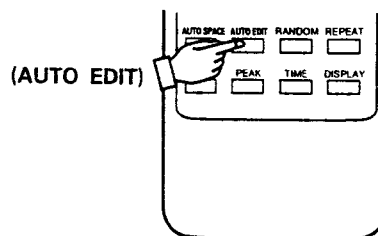
- When the random button (RANDOM) is pressed, the **RANDOM** indicator lights and random playback starts automatically.
- If the random button (RANDOM) is pressed when tracks are programmed, only the programmed tracks are played at random.
- If the random button (RANDOM) is pressed when the repeat function is set, all tracks will be played through once in random order, after which all tracks will be played through again in different order, and so on.
- During the search operation, the track numbers from the first to the last track on the disc are displayed in rapid succession on the track number display, so you cannot tell what track is going to be played next until playback begins.

NOTE:

- The total remaining time is not displayed during the random mode.
- The auto edit mode is cancelled if the random button (RANDOM) is pressed during the random mode.

13 Edit Recording on Sides A and B of the Tape **Auto Edit** (Remote control only)

The auto edit function automatically divides the tracks on the compact disc into sides A and B, with the division at the beginning of a track in such a way that the disc's total playing time is divided as close as possible by one half.



- When the AUTO EDIT button is pressed in the stop condition, the total play time of side A (the first half) and the track numbers (on the calendar) are displayed for about 2 seconds. Next, the side B (last half) information is similarly displayed after which the player automatically pauses at the beginning of the first track of side A. **EDIT** and **PROGRAM** will be lit on the display at this time.
- Pressing the play button (▶ PLAY) or the pause button (⏸ PAUSE) will start the play mode. When side A has finished playing, the player will pause at the beginning of the first track on side B.
- Pressing the play button (▶ PLAY) or the pause button (⏸ PAUSE) again will start the play mode. When side B has finished playing, the player automatically stops.

14 Fading Out or Fading In at the Desired Location **Fader Function** (Analog output only)

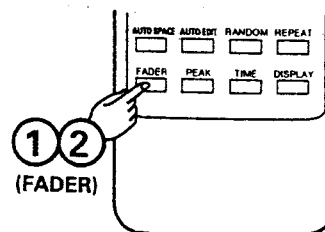
- Fading out and fading in is possible at the desired position during play
Manual Fader
(Remote control only)

1 Fade Out

When the fader button (FADER) is pressed during play, fade out will be provided for about 5 seconds. **FADE** will light up during the operation and (▶) will flash. When fade out is completed the player will automatically pause.

2 Fade In

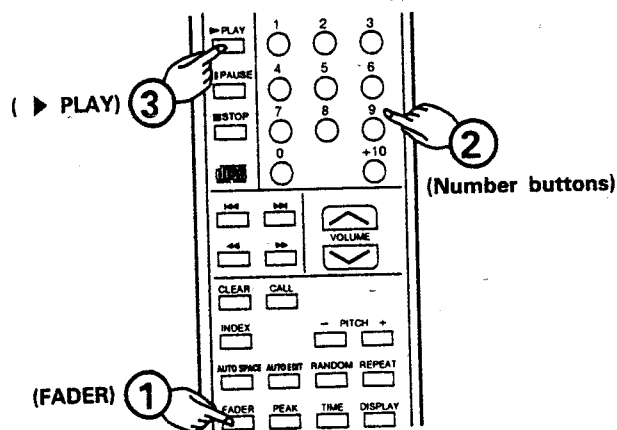
When the fader button (FADER) is pressed from the pause mode, the player will start playing and fade in will be provided for about 3 seconds. **FADE** will light up during the operation and (◀) will flash.



(2) Setting the Fade Out Time in Advance (TIME FADE) (Remote control only)

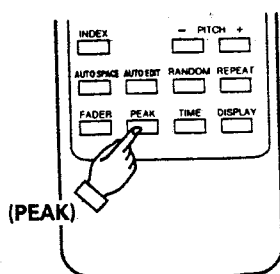
- ① When the fader button (FADER) is pressed in the stop mode, the FADE indicator (FADE) will light up, TIME will appear as —M—s, and the player will wait for the input of the fade out time.
- ② Input the fade out time with the (0~9) number buttons.
- ③ Pressing the play button (▶ PLAY) will start the playback and the FADE indicator (FADE) will light up.
- ④ The (▶) indication will start flashing 5 seconds before the specified fade out time and then the fade out will begin. The fade out will end at the specified time and the player will automatically pause.

The time fade function will be cancelled if an auto search or manual search is performed during playback.



(15) To Search for the Peak Level of the Disc Peak Search (Remote control only)

- The player searches for the peak portion and plays a few seconds either side of this point repeatedly. This is convenient for making recording adjustments on the tape recorder.



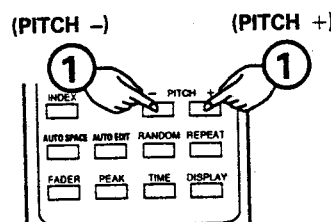
- ① When the peak search button (PEAK SEARCH) is pressed in the stop mode, the PEAK indicator will flash and the player will search for the portion having the peak level.
- ② After the search, the PEAK indicator lights up and a few seconds either side of the peak level point are played back repeatedly. This is convenient for making recording adjustments on the tape recorder.
- ③ To cancel the peak search, press the stop (■ STOP) button.
- ④ When the play button (▶ PLAY) or the pause button (⏸ PAUSE) is pressed during peak search or while playing the peak portion back repeatedly, the player will go to the beginning of the first track (the first track of the program for program playback, or the track that was first selected in the time edit) and begin playback from here if the play button was pressed or enter the pause mode if the pause button was pressed.

NOTE:

- The peak search function reads the level of the disc from the beginning of the disc to the end at a fixed interval and regards the maximum value that was read as the peak. Peak search takes a little time for this reason.
- The peak portion may change each time the disc is read and there may be a slight difference in the actual peak level, but since this difference is ever so slight there will be no adverse effects on the adjustment of the recording level.
- The time fade function is cancelled when the peak search operation is performed. To use the time fade function, set to the stop mode then reset the function.
- Buttons other than the open/close button (▲ OPEN/CLOSE), play button (▶ PLAY), pause button (⏸ PAUSE), and stop (■ STOP) button will not function during peak search or repeat play of the peak portion.

(16) Changing the Speed of Playback Pitch Control (Remote control only)

- Playback can be speeded up or slowed down.



- ① Press the PITCH + or PITCH - button during the play or pause mode to change the speed of playback.
- ② When one of the PITCH buttons is pressed, the amount of the speed change appears on the seconds section ("S") of the TIME display for approximately 2 seconds. "PITCH -" appears when the speed is slower than normal, "PITCH +" when the speed is faster than normal. The speed can be changed in steps of 0.1% from -12.0% to +12.0%.
- ③ Press the PLAY button (▶ PLAY) during playback with a different speed to return to normal speed playback. Also, the speed setting is cancelled if the stop mode is set during playback at a different speed.

NOTES

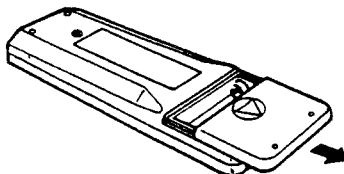
- No data is output from the digital output jack (OPTICAL) during playback with a different speed (when "PITCH" is lit). If you want to output data, press the PLAY button (▶ PLAY) to return to normal speed playback.
- The pitch also changes when the speed is changed.
- If the speed is changed during the time edit operation, the total playing time changes, so the time of the blank space is not calculated accurately.
- The time display (elapsed playback time; remaining time per track, or total remaining time) will not be accurate during playback with a different speed.
- A maximum of 3 seconds is required to return to the normal speed when the PLAY button (▶ PLAY) is pressed during playback with a different speed. During this time, only the OPEN/CLOSE (▲ OPEN/CLOSE) and STOP buttons (■ STOP) will function.

PLAYBACK USING THE REMOTE CONTROL UNIT

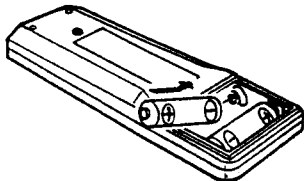
The accessory RC-251 remote control unit can be used to control the CD player from a convenient distance.

(1) Inserting the dry cell batteries

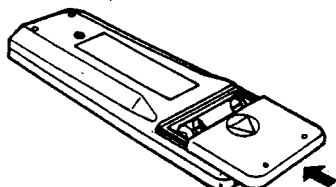
1. Remove the battery cover on the back of the remote control unit.



2. Insert two R6P (standard size AA) dry cell batteries with correct polarity as indicated inside the battery compartment.



3. Replace the battery cover.

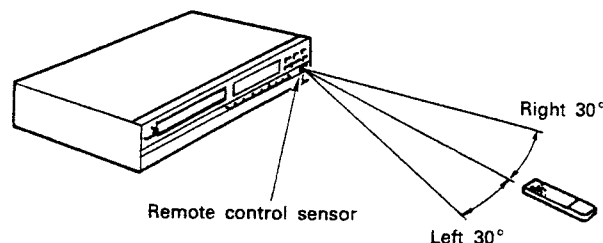


Notes on the Batteries

- The remote control unit uses standard size AA dry cell batteries.
- The batteries will need to be replaced approximately once a year. Replacement may be necessary earlier depending on how much the remote control unit is used.
- If, in less than a year from the time new batteries were inserted, the remote control fails to operate the CD player from a near-by position, it is time to replace the batteries.
- Insert the batteries properly, following the polarity diagram inside the battery compartment, in other words make sure (+) and (-) terminals are properly aligned.
- Batteries are prone to damage and leakage. Therefore:
 - Do not combine new batteries with used ones.
 - Do not combine different types of batteries.
 - Do not jumper opposite poles of the batteries, expose them to heat, break them open nor expose of them in open fire.
- If the remote control unit is not to be used for a long period of time, remove the batteries from the unit.
- If the batteries have leaked, remove any traces of battery fluid from the battery compartment, wiping thoroughly with a dry cloth. Then insert new batteries.

(2) Directions for Use

- Operate the remote control unit while pointing it towards the remote control sensor on the CD player (see below).



When a remote control signal is received, the remote control indicator on front of the CD player lights briefly.

- The remote control unit can be used at a distance up to 8 meters in a straight line from the CD player. This distance decreases if there are obstructions blocking the signal path or when the remote control unit is operated at an angle from the remote control sensor.
- The buttons on the remote control unit have identical functions with those on the CD player. However, the following functions cannot be remote controlled: Power ON/OFF.

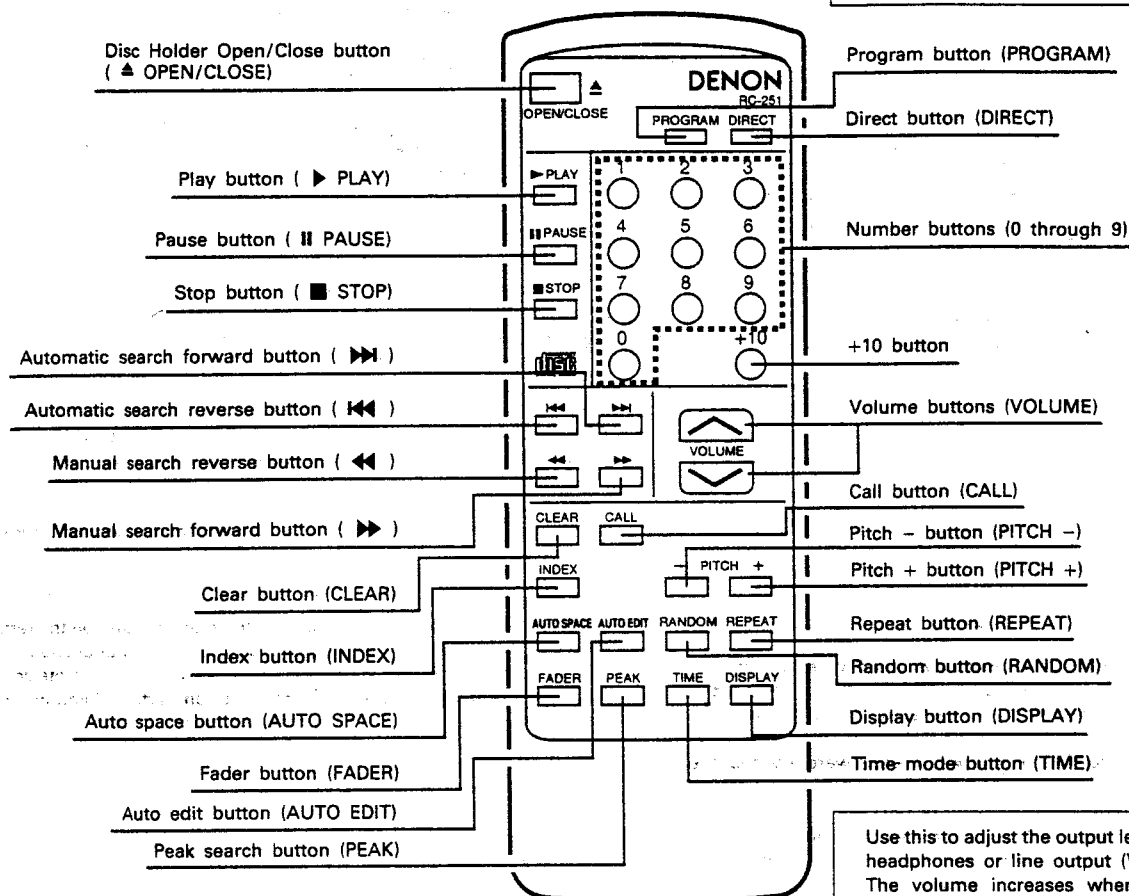
Cautions on Use

- Do not press the operation buttons on the main unit and on the remote control unit simultaneously, as this will result in malfunction.
- The remote control unit may not operate properly if the remote control sensor is exposed to direct sunlight or strong artificial lighting, or if there is an object between the remote control unit and the remote control sensor.

REMOTE CONTROL UNIT RC-251

Setting to the Program Mode

- For program search, press the PROGRAM button then the number buttons (0 through 9 and +10).
- The remote control unit is normally set to the direct mode.



Use this to adjust the output level (VOLUME) of the headphones or line output (VARIABLE). The volume increases when the (+) button is pressed, decreases when the (-) button is pressed.

- Direct Search**
Normally, direct search is possible simply by pressing the desired number buttons.
- Program Search (During playback, the track which is currently playing is programmed as the 1st track.)**
Press the PROGRAM button, then press the number buttons.
For example, to program tracks number 3, 11, and 5, press PROGRAM → 3 → +10 and 1 → 5.
To cancel the program, press the DIRECT button.
- Clear button**
This button is used both for clearing when in the program mode and for clearing the index search mode.

- Inputting the Track Numbers**
For track numbers below 9, simply press the corresponding button. For track numbers of 10 and greater, press the +10 then the number buttons.
For example, for track number 22 press +10 twice then 2.
- Volume**
When a volume button is pressed, "--" appears in the minutes portion (M) of the TIME display and the level is displayed at the seconds portion (S) for approximately 2 seconds. The maximum level is 0, the minimum -50. There are 50 steps, one step corresponding to about 1.5 dB.

THE COMPACT DISC

1. Precautions on handling compact discs

- Do not allow fingerprints, oil or dust on the surface of the compact disc. If the signal surface is dirty, wipe it off with a soft, dry cloth. Wipe in circular motions from the center and out.
- Do not use water, benzene, thinner, record sprays, electrostatic proof chemicals, or silicone-treated cloth to clean discs.
- Always use care when handling discs to prevent damaging the surface, in particular when removing a disc from the case and returning it.
- Do not bend compact discs.
- Do not apply heat to compact discs.
- Do not enlarge the hole in the center of the disc.
- Do not write on the disc and do not attach any labels.

- Condensation will form on the disc surface if it is brought into a warm room from a cold area, such as outdoors during winter. Wait until the condensation disappears. Never dry discs with hair dryers, etc.

2. Precautions on storage

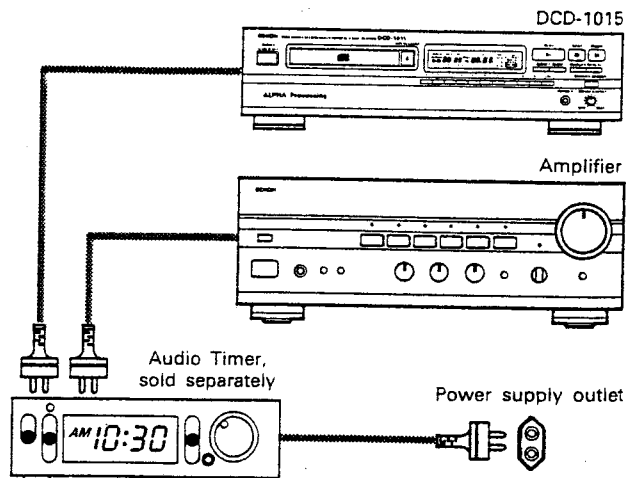
- After playing a disc, always return it to its case.
- Keep discs in the cases when they are not to be played. This will protect them from dust and dirt and prolong their service life.
- Do not store discs in the following places:
 - Places exposed to direct sunlight for a considerable time.
 - Places subject to accumulation of dust or high humidity.
 - Places exposed to high temperatures, such as close to heater outlets.

TIMER-CONTROLLED PLAYBACK

■ Operation

1. Turn on the power of all system components.
2. Set the input selector on the amplifier to correspond to the inputs the CD player is connected to.
3. Make sure a disc has been loaded in the disc holder.
4. Check the time on the timer and then set the desired turn-on time.
5. Turn the audio timer ON.
Power is turned off automatically in all components connected to the timer.
6. When the preset turn-on time is reached, power is turned on in the system components, and CD playback starts from the first track.

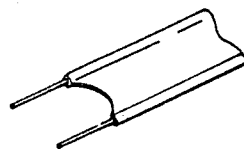
■ Connection



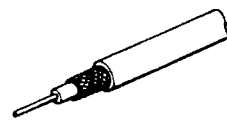
INSTALLATION PRECAUTIONS

The CD player uses a microcomputer for controlling internal electronic circuits. In the event that the player is used while a near-by tuner or TV is turned on, although unlikely, interference could occur either in the sound from the tuner or the picture of the TV. To avoid this, please take the following precautions.

- Keep the CD player as far away from the tuner or TV set as possible.
- Keep the power cable and connecting cable of the CD player separate from the antenna wires of the tuner and TV.
- Interference is particularly likely to occur when an indoor antenna or a 300 Ω /ohm feeder cable is used. Thus, use of an outdoor antenna and 75 Ω /ohm coaxial cable is strongly recommended.



300 Ω /ohm feeder cable



75 Ω /ohm coaxial cable

TROUBLESHOOTING

If the CD player does not seem to be functioning properly, check the following:

Disc holder does not open or close.

- Is the power on?

When a disc is loaded, 00000000 is displayed.

- Is the disc loaded properly? See page 8

When the play button (▶ PLAY) is pressed, playback does not start.

- Is the disc dirty or scratched? See page 14

There is no sound, or it is distorted.

- Is the output cord properly connected to the amplifier? See page 7
- Have the amplifier controls been set correctly?

A specific section of the disc will not play.

- Is the disc dirty or scratched? See page 14

Programmed playback does not work.

- Have programming been properly done? See pages 9 and 14

Incorrect operation when buttons on the remote control are pressed.

- Is the remote control unit being operated too far from the CD player? See page 13
- Are there obstacles blocking the ray?
- Is the remote control sensor exposed to strong light?
- Are the batteries exhausted?

No data is output from the digital output jack (OPTICAL/(COAXIAL))

- Is the pin cord properly connected? See Page 7.
- Have you changed the speed of playback? See Page 12.

SPECIFICATIONS

AUDIO

No. of Channels:	2 channels
Frequency Response:	2 ~ 20,000 Hz
Dynamic Range:	100 dB
Signal-to-noise Ratio:	112 dB
Harmonic Distortion:	0.0025% (1 kHz)
Separation:	105 dB (1 kHz)
Wow & Flutter:	Below measurable limit: ($\pm 0.001\%$ W, peak)
Output (Analog):	2.0 V, VARIABLE 0~2.0 V
Output (Digital):	COAXIAL (0.5 Vp-p 75 Ω /ohms) OPTICAL

DISCS

GENERAL CHARACTERISTICS

Power Supply:	50 Hz, voltage is shown on rating label
Power Consumption:	14 W
Dimensions:	434 W x 120 H x 288 D mm
Weight:	4.2 kg

FUNCTIONS AND DISPLAY

Functions:

Direct selection, automatic search, programmed playback, repeat playback, manual search, auto space, time mode, auto edit, peak search, fader

Display:

Track number, time, music calendar, and engaged modes

Others:

Headphones jack

REMOTE CONTROL UNIT

Remote Control System:

RC-251

Power Supply:

Infrared pulse system
3 V DC; two R6P (standard size AA)
dry cell batteries

External Dimensions:

60 W x 177 H x 18 D mm

Weight:

100 g (including batteries)

* Design and specifications are subject to change without notice in the course of product improvement.